

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/661,400
				Filing Date	September 12, 2003
				First Named Inventor	
				Art Unit	3774
				Examiner Name	Paul B. Prebilic
Sheet	1	of	11	Attorney Docket Number	026322-002910US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Column, Lines, Where Relevant Passages or Relevant Figures Appear
	1	4,078,564	03-14-1978	Spina et al.	
	2	4,126,904	11-28-1978	Shepard	
	3	4,223,984	09-23-1980	Miyata et al.	
	4	4,268,131	05-19-1981	Miyata et al.	
	5	4,346,482	08-31-1982	Tennant et al.	
	6	4,452,776	06-05-1984	Refojo	
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	8	4,563,779	01-14-1986	Kelman	
	9	4,581,030	04-06-1986	Bruns et al.	
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	11	4,621,912	11-11-1986	Meyer	
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	20	4,851,003	07-25-1989	Lindstrom	
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	24	4,978,713	12-18-1990	Goldenberg	
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	26	4,981,841	01-01-1991	Gibson	
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	28	5,019,097	05-28-1991	Knight et al.	
	29	5,104,408	04-14-1992	Thompson	
	30	5,108,428	04-28-1992	Capecchi et al.	
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	33	5,151,310	09-29-1992	Yanagisawa et al.	
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	35	5,163,956	11-17-1992	Liu et al.	

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	71	6,717,651	04-06-2004	Kato et al.	
	72	6,773,442	08-10-2004	Pallikaris et al.	
	73	7,004,953	02-28-2006	Pallikaris et al.	
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	89	2004/0243160	12-02-2004	Shiuey et al.	
	90	2005/0070942	03-31-2005	Perez	
	91	2005/0124982	06-09-2005	Perez	
	92	2005/0196427	09-08-2005	Tirell et al.	
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	94	2005/0259221	11-24-2005	Marmo	
	95	2006/0034807	02-16-2006	Griffith	
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	98	2006/0071356	04-06-2006	Beebe	
	99	2006/0134050	06-22-2006	Griffith et al.	
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	103	2006/0246113	11-02-2006	Griffith et al.	
	104	2006/0247660	11-02-2006	Perez	
	105	2007/0016292	01-18-2007	Perez	
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		Number Kind Code <sup>2</sup> (if known)			
106	2007/0026046		02-01-2007	Fogg et al.	
107	2007/0182920		08-09-2007	Back et al.	
108	2007/0239184		10-11-2007	Gaeckle et al.	
109	2007/0265849		11-15-2007	Perez	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			T <sup>6</sup>
112	DE	199 47 711	05-03-2001	SCHRAGE NORBERT	ENGLISH ABSTRACT ONLY
113	CA	2,134,744	05-04-1995	COLLAGEN CORP	
114	CA	2,286,718	11-05-1998	PEYMAN GHOLAM A	
115	CA	2,227,827	07-23-1999	UNIV D OTTAWA UNIVERSITY OF OT	
116	EP	1 530 600	B1	OTTAWA HEALTH RESEARCH INSTITUTE	
117	EP	1 741 457	A1	OTTAWA HEALTH RESEARCH INSTITUTE	
118	GB	1 569 707	06-18-1980	ICI LTD	
119	WO	88/02622	04-21-1988	CBS LENS	
120	WO	92/14420	09-03-1992	CBS LENS	
121	WO	95/13764	05-26-1995	CIBA GEIGY AG	
122	WO	98/03267	01-29-1998	ELECTROSOLS LTD	
123	WO	00/35524	06-22-2000	ELECTROSOLS LTD	
124	WO	00/67694	11-16-2000	MEDTRONIC, INC.	
125	WO	02/092142	11-21-2002	ELECTROSOLS LTD	
126	WO	02/092142	A3	ELECTROSOLS LTD	
127	WO	2004/024035	03-25-2004	OCULAR SCIENCES, INC.	
128	WO	2004/028356	04-08-2004	BAUSCH & LOMB	
129	WO	2004/052254	06-24-2004	NOVARTIS AG	

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130	WO	2005/030102		04-07-2005	PEREZ	<input type="checkbox"/>
131	WO	2005/042043		05-12-2005	MEDTRONIC INC	<input type="checkbox"/>
132	WO	2005/049071	A2	06-02-2005	PEREZ	<input type="checkbox"/>
133	WO	2005/116729		12-08-2005	COOPERSVISION, INC.	<input type="checkbox"/>
134	WO	2006/007408		01-19-2006	PEREZ	<input type="checkbox"/>
135	WO	2006/015490		02-16-2006	OTTAWA HEALTH RESEARCH INSTITUTE	<input type="checkbox"/>
136	WO	2006/020859	A2	02-23-2006	OTTAWA HEALTH RESEARCH INSTITUTE	<input type="checkbox"/>
137	WO	2006/116601		11-02-2006	TISSUE ENGINEERING REFRACTION	<input type="checkbox"/>
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139	WO	2007/028258		03-15-2007	OTTAWA HEALTH RESEARCH INSTITUTE	<input type="checkbox"/>

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	141	BIOWSKI et al., "Corneal Lathing Using the Excimer Laser and a Computer-controlled Positioning System," <i>J Refract Surg.</i> 2000 Jan-Feb;16(1):23-31.				<input type="checkbox"/>
	142	BLAIS et al., "LBP and CD14 secreted in tears by the lacrimal glands modulate the LPS response of corneal epithelial cells," <i>Invest Ophthalmol Vis Sci.</i> 2005 Nov;46(11):4235-44.				<input type="checkbox"/>
	143	BLOOMFIELD et al., "The use of Eastman 910 monomer as an adhesive in ocular surgery. I. Biologic effects on ocular tissues," <i>Am J Ophthalmol.</i> 1963 Apr;55:742-748.				<input type="checkbox"/>
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	145	BOURNE, "Clinical estimation of corneal endothelial pump function," <i>Trans Am Ophthalmol Soc.</i> 1998; 96: 229-242.				<input type="checkbox"/>
	146	CARLSSON et al., "Bioengineered corneas: how close are we?" <i>Curr Opin Ophthalmol.</i> 2003 Aug;14(4):192-197.				<input type="checkbox"/>
	147	<i>Controlled Release Society Newsletter</i> , 2005; 22(2): 1-36.				<input type="checkbox"/>
	148	COX, "Correcting Ocular Wavefront Aberrations using Contact Lenses", University of Bradford, downloaded from the Internet:< <a href="http://www.brad.ac.uk/acad/lifesci/optometry/index.php/Projects/CorrectingOcularWavefrontAberrationsUsingContactLenses">http://www.brad.ac.uk/acad/lifesci/optometry/index.php/Projects/CorrectingOcularWavefrontAberrationsUsingContactLenses</a> >, Last modified 7 October 2003.				<input type="checkbox"/>
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	151	DOHLMAN et al., "Replacement of the corneal epithelium with a contact lens (artificial epithelium)," Trans Am Acad Ophthalmol Otolaryngol. 1969 May-Jun;73(3):482-493.				<input type="checkbox"/>
	152	DOILLON et al., "A collagen-based scaffold for a tissue engineered human cornea: physical and physiological properties," Int J Artif Organs. 2003 Aug;26(8):764-773.				<input type="checkbox"/>
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	157	EVANS et al. "Epithelialization of a Synthetic Polymer in the Feline Cornea: a Preliminary Study," Invest. Ophthalmol. Vis. Sci. 2000, 41(7):1674-1680.				<input type="checkbox"/>
	158	EVANS et al., "A review of the development of a synthetic corneal onlay for refractive correction," Biomaterials. 2001 Dec;22(24):3319-3328.				<input type="checkbox"/>
	159	EVANS et al., "Progress in the development of a synthetic corneal onlay," Invest. Ophthalmol. Vis. Sci. 2002; 43(10): 3196-3201.				<input type="checkbox"/>
	160	GRIFFITH et al., "Artificial human corneas: Scaffolds for transplantation and host regeneration" Cornea. 2002 Oct;21(7 Suppl): S54-61				<input type="checkbox"/>
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	163	Ibrahim-Elzembely, "Human fibrin tissue glue for corneal lamellar adhesion in rabbits: a preliminary study," Cornea. 2003 Nov;22(8):735-739.			<input type="checkbox"/>
	164	JONES et al., "Silicone Hydrogel Contact Lens Materials Update - Part 1", downloaded from the Internet: < <a href="http://www.siliconehydrogels.com/editorials/index_july.asp">http://www.siliconehydrogels.com/editorials/index_july.asp</a> >, July 2004, 4 pages total.			<input type="checkbox"/>
	165	JONES et al., "Silicone Hydrogel Contact Lens Materials Update - Part 2", downloaded from the Internet: < <a href="http://www.siliconehydrogels.com/editorials/index_august.asp">http://www.siliconehydrogels.com/editorials/index_august.asp</a> >, August 2004, 4 pages total.			<input type="checkbox"/>
	166	KAMINSKI et al., "Ten-year follow-up of epikeratophakia for the correction of high myopia," Ophthalmology. 2003 Nov;110(11):2147-2152.			<input type="checkbox"/>
	167	KAUFMAN et al., "Human fibrin tissue adhesive for sutureless lamellar keratoplasty and scleral patch adhesion a pilot study," Ophthalmology, 110(11): 2168-2172.			<input type="checkbox"/>
	168	KHADEM et al., "Healing of perforating rat corneal incisions closed with photodynamic laser-activated tissue glue," Lasers in surgery and medicine 2004;35(4):304-311.			<input type="checkbox"/>
	169	KLENKLER et al., "EGF-grafted PDMS surfaces in artificial cornea," Biomaterials. 2005 Dec;26(35):7286-96.			<input type="checkbox"/>
	170	LAGALI et al., "Innervation of tissue-engineered corneal implants in a porcine model: a 1-year in vivo confocal microscopy study," Invest Ophthalmol Vis Sci. 2007 Aug;48(8): 3537-3544.			<input type="checkbox"/>
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Examiner Signature				Date Considered	

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/661,400
				Filing Date	September 12, 2003
				First Named Inventor	
				Art Unit	3774
				Examiner Name	Paul B. Prebilic
Sheet	9	of	11	Attorney Docket Number	026322-002910US

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T <sup>2</sup>
	172	LATKANY et al., "Plasma surface modification of artificial corneas for optimal epithelialization," J. Biomed Mater Res 1997; 36(1):29-37.				<input type="checkbox"/>
	173	LEKS KUL et al., "CxGELSIX: a novel preparation of type VI collagen with possible use as a biomaterial," m ea. 2000 Mar;19(2):194-203.				<input type="checkbox"/>
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	176	LIU et al., "A simple, cross-linked collagen tissue substitute for corneal implantation," Invest Ophthalmol Vis Sci. 2006 May;47(5): 1869-1875.				<input type="checkbox"/>
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(Use as many sheets as necessary)				Filing Date	September 12, 2003
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	183	MCDONALD, "The future direction of refractive surgery," J Refract Surg 1988; 4(5):158-168.			<input type="checkbox"/>
	184	McLaughlin et al., "Regeneration of corneal cells and nerves in an implanted collagen corneal substitute," Cornea. 2008 Jun;27(6): 580-589.			<input type="checkbox"/>
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	188	NAKAMURA, "Histopathological and immunohistochemical studies of lenticles after epikeratoplasty for keratoconus," British Journal of Ophthalmology 2005;89:841-846.			<input type="checkbox"/>
	189	PIERCE Crosslinking Reagents Technical HandBook, pp. 16-23. downloaded from the Internet:<> <a href="http://www.piercenet.com/files/1601361Crosslink.pdf">http://www.piercenet.com/files/1601361Crosslink.pdf</a> >			<input type="checkbox"/>
	190	RAFAT et al., "PEG-stabilized carbodiimide crosslinked collagen-chitosan hydrogels for corneal tissue engineering," Biomaterials. 2008 Oct;29(29): 3960-3972.			<input type="checkbox"/>
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	192	RICHARDS et al., "The relation of the corneal surface to the permanence of glued-on contact lenses," Can J Ophthalmol. 1971 Apr;6(2):98-103.			<input type="checkbox"/>
	193	Ruben "Adhesive keratoprostheses," Trans Ophthalmol Soc U K. 1970;90:551-564.			<input type="checkbox"/>
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	194	SCHMITZ, 'Excimer laser "corneal shaping": a new technique for customized trephination in penetrating keratoplasty,' Graefe's Archive for Clinical and Experimental Ophthalmology, 2003 May; 241:423-431			
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	203	U.S. Patent Application 60/715411, filed 09-09-2005.			

Examiner Signature	/Paul Prebilic'	Date Considered	04/02/2009
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